

**What is claimed is:**

1. A resource adjustment apparatus for  
adjusting for each module an amount of computer resources  
5 used in a system having a plurality of modules each  
comprising at least one application programs,  
comprising:
  - a storage device storing data representing a  
transition of a past transaction occurrence amount for  
10 each of the plurality of modules;
  - a generation device obtaining data representing  
a transition of a transaction occurrence amount of a  
target module from the storage device and using the  
transaction occurrence amount as a transaction  
15 processing amount in a function that expresses a  
correlation between a past transaction processing amount  
and a past use resource amount of the target module,  
thereby generating a transition of a use resource amount  
from the transition of the transaction occurrence amount  
20 of the target module; and
  - an allocation device using the generated  
transition of the use resource amount as a transition  
of a predicted use resource amount and automatically  
fluctuating an allocation resource amount of the target  
25 module in accordance with the transition of the predicted

use resource amount.

2. A computer-readable storage medium storing a program for a computer adjusting for each module an amount  
5 of computer resources used in a system having a plurality of modules each consisting of at least one application programs, wherein the program causes the computer to perform:

obtaining data representing a transition of a  
10 transaction occurrence amount of a target module from a storage device storing data representing a transition of a past transaction occurrence amount for each of a plurality of modules;

generating a transition of a use resource amount  
15 from the transition of the transaction occurrence amount of the target module by using the transaction occurrence amount as a transaction processing amount in a function that shows a correlation between a past transaction processing amount and a past use resource amount of the  
20 target module; and

using the generated transition of the use  
resource amount as a transition of a predicted use  
resource amount and automatically fluctuating an  
allocation resource amount of the target module in  
25 accordance with the transition of the predicted use

resource amount.

3. The storage medium according to claim 2,  
wherein the program causes a computer to perform:

5       generating a transition of a predicted transaction  
occurrence amount in each of several types of cycles  
using the data that represents the transition of the  
transaction occurrence amount of the target module,  
displaying the generated transition on a screen and  
10       combining the transitions of the transaction occurrence  
amounts in respective cycles in accordance with an  
instruction from an operator, thereby generating a  
transition of a predicted transaction occurrence amount;  
      applying said function to the transition of the  
15       predicted transaction occurrence amount; and  
      generating a transition of the use resource amount.

4. The storage medium according to claim 3,  
wherein the program causes the computer to perform:

20       generating transitions of a mean value and a maximum  
value of transaction occurrence amounts regarding at  
least two modules in each of the several types of cycles  
in the system;  
      displaying the generated transitions on a screen;  
25       combining transitions of transaction occurrence amounts

in respective cycles using a value selected by the operator; and

generating a transition of the predicted transaction occurrence amount.

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5. The storage medium according to claim 2, wherein the program causes the computer to perform:

displaying the generated transition of the use resource amount on a screen; and

10 when an operator changes the displayed transition of the use resource amount, using the changed transition of the use resource amount as the transition of the predicted use resource amount.

15 6. The storage medium according to claim 2, wherein the program causes the computer to perform:  
obtaining data that represents a transition of a most-recent transaction occurrence amount of the target module from the storage device;

20 using a transition of a use resource amount generated by the transition of the most-recent transaction occurrence amount as a transition of a immediately-after predicted use resource amount; and  
fluctuating an immediately-after allocation  
25 resource amount of the target module.

7. The storage medium according to claim 2, wherein the program causes the computer to perform:

5       preferentially allocating resources to the target module during a period since a use resource amount of the target module reaches a predetermined bottleneck detection threshold until a use resource amount of the target module reaches a bottleneck elimination  
10 threshold.

8. The storage medium according to claim 2 wherein the program causes the computer to perform:

      preferentially allocating resources to the target  
15 module during a period since a transaction occurrence amount of the target module reaches a predetermined bottleneck detection threshold until a transaction occurrence amount of the target module reaches a bottleneck elimination threshold.

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9. The storage medium according to claim 2, wherein the program causes the computer to perform:

      instructing the target module to generate a child processing when a predicted use resource amount of the  
25 target module reaches a predetermined amount.

10. The storage medium according to claim 2,  
wherein the program causes the computer to perform:

displaying a screen for capacity planning support  
including a transition of a use resource amount that  
5 is predicted for a long time.

11. A conveyance signal for conveying a program for  
a computer adjusting for each module an amount of computer  
resources used in a system having a plurality of modules  
10 each comprising at least one application programs,  
wherein the program causes the computer to perform:

obtaining data representing a transition of a  
transaction occurrence amount of a target module from  
a storage device storing data representing a transition  
15 of a past transaction occurrence amount for each of a  
plurality of modules;

generating a transition of a use resource amount  
using the transition of the transaction occurrence amount  
of the target module by using the transaction occurrence  
20 amount as a transaction processing amount in a function  
that expresses a correlation between a past transaction  
processing amount and a past use resource amount of the  
target module;

using the generated transition of the use  
25 resource amount as a transition of a predicted use

resource; and

automatically fluctuating an allocation resource amount of the target module in accordance with the transition of the predicted use resource amount.

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12. A resource adjusting method adjusting for each module an amount of computer resources used in a system having a plurality of modules each comprising at least one application program, comprising:

10 obtaining data representing a transition of a transaction occurrence amount of a target module from a storage device storing data representing a transition of a past transaction occurrence amount for each of a plurality of modules;

15 using the transaction occurrence amount as a transaction processing amount in a function that expresses a correlation between a past transaction processing amount and a past use resource amount of the target module, thereby generating a transition of the  
20 use resource amount from the transition of the transaction occurrence amount of the target module; and

using the generated transition of the use resource amount as a transition of a predicted use resource and automatically fluctuating an allocation resource amount  
25 of the target module in accordance with the transition

of the predicted use resource amount.

13. A resource adjustment apparatus for adjusting for each module an amount of computer resources used in a system having a plurality of modules each comprising at least one application program, comprising:
- a storage device storing data representing a transition of a past transaction occurrence amount for each of the plurality of modules;
  - 10 a generation device obtaining data representing a transition of a transaction occurrence amount of a target module from the storage device and using the transaction occurrence amount as a transaction processing amount in a function that expresses a correlation between a past transaction processing amount and a past use resource amount of the target module, thereby generating a transition of a use resource amount from the transition of the transaction occurrence amount of the target module; and
  - 20 an allocation device using the generated transition of the use resource amount as a transition of a predicted use resource and automatically fluctuating an allocation resource amount of the target module in accordance with the transition of the prediction resource amount.
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14. A resource adjustment apparatus for adjusting for each module an amount of computer resources used in a system having a plurality of modules each comprising at least one application programs, comprising:
- a storage means for storing data representing a transition of a past transaction occurrence amount for each of the plurality of modules;
  - 10 a generation means for obtaining data representing a transition of a transaction occurrence amount of a target module from the storage device and using the transaction occurrence amount as a transaction processing amount in a function that expresses a correlation between a past transaction processing amount and a past use resource amount of the target module, thereby generating a transition of a use resource amount from the transition of the transaction occurrence amount of the target module; and
  - 20 an allocation means for using the generated transition of the use resource amount as a transition of a predicted use resource amount and automatically fluctuating an allocation resource amount of the target module in accordance with the transition of the predicted use resource amount.
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